14. (Original) The method as defined in claim 12, wherein said undulating curve is a succession of generally semi-circular sections.

15. (Previously Presented) The method as defined in claim 13, wherein said radius of curvature is in the range of 15-40 inches.

16. (Original) A method of forming a weld wire for storage on a spool, said method comprising:

(a) forming said weld wire; and,

(b) imparting a desired shape memory on said weld wire.

17. (Original) The method as defined in claim 16, wherein said weld wire is at least partially formed by an extrusion process.

18. (Original) The method as defined in claim 16, wherein said desired shape memory is at least partially imparted on said weld wire prior to winding said weld wire on said spool, and said desired shape memory is at least partially retained on said weld wire after said weld wire is unwound from said spool.

19. (Original) The method as defined in claim 16, wherein said desired shape memory is at least partially imparted on said weld wire by a casting process.

20. (Original) The method as defined in claim 16, including the step of at least partially removing the shape memory on said weld wire resulting from said forming of said weld wire prior to imparting said desired shape memory on said weld wire.

21. (Original) The method as defined in claim 16, wherein said shape memory substantially lies in a single plane.

22. (Original) The method as defined in claim 16, wherein said desired shape memory is a waveform.

23. (Original) The method as defined in claim 22, wherein said waveform has substantially the same maximum amplitude for each half cycle of a full waveform.

24. (Original) The method as defined in claim 22, wherein each half cycle of said waveform is substantially semi-circular.

25. (Original) The method as defined in claim 16, wherein said desired shape memory is at least partially retained on said weld wire as said weld wire passes through a welding tip of a welding machine.

26. (New) A method of forming a weld wire for storage on a spool, said method comprising:

(a) forming said weld wire; and,

(b) imparting a desired shape memory on said weld wire, said desired shaped including a substantially linear cast in the form of a waveform generally in a single plane, said cast having a generally fixed radius of curvature of at least about 5 inches.

27. (New) The method as defined in claim 26, including the step of at least partially imparting a desired shape memory on said weld wire prior to winding said weld wire on a spool.

28. (New) The method as defined in claim 26, wherein said waveform is a succession of generally semicircular sections.

29. (New) The method as defined in claim 26, wherein said waveform having a half cycle of up to about 60 inches.

30. (New) The method as defined in claim 27, wherein said waveform having a maximum amplitude for each half cycle of up to about 40 inches.

31. (New) The method as defined in claim 26, wherein said waveform having a maximum amplitude for each half cycle, said maximum amplitude of each half cycle having a deviation of less than about 6 inches within one cycle of said weld wire.